

# Taxonomic review of Cleridae (Coleoptera) in Heilongjiang Province with one new record species from China

LI Cheng-de and BAI Yong-qing

Forestry college of Northeast Forestry University, Harbin 150040, P. R. China

**Abstract:** Seven species of family Cleridae are reported from Heilongjiang Province in the present paper, including one species, *Orthrius striatulus* (Motschulsky), which is firstly recorded from China. Distributional data and adult photos for all the species and brief diagnosis for new record species are also provided.

**Key words:** Cleridae; Taxonomy; Heilongjiang Province; New record species

## Introduction

The family, Cleridae, currently contains approximately 300 genera, almost 4 000 described species in the world (Kim and Jung 2006a), and about 150 species have been known from China to date (Xie and Zhang 1993; Hua 2002). Both larvae and adults of most species are known as predators of other insects, while some are known as important pests of stored products. No systematic study of the family was found in China, except some lists reported by several authors (Xie and Zhang, 1993; Hua, 2002).

The present paper reports seven species of the family distributed in Heilongjiang Province, including one species new to China. All the specimens examined are deposited in insect collection at Northeast Forestry University, Harbin, China.

## Systematics

Family Cleridae Latreille, 1802: 110.  
Subfamily Clerinae Latreille, 1802: 110.  
Type genus: *Clerus* Fabricius, 1775.

*Orthrius striatulus* (Motschulsky) (Fig. 1)

*Opilus striatulus* Motschulsky, 1860: 113.  
*Opilo striatulus*: Reitter, 1894: 11.  
*Phloeocopus striatulus*: Chobut, 1897: 241.  
*Orthrius striatulus*: Kim and Jung, 2006: 9-10.

Diagnosis: Body length 8.0-11.0 mm. Head, pronotum reddish brown, and legs bright brownish yellow. Eyes coarsely and al-

most entirely granulated. Pronotum constricted at base and anterior part with weak transverse impression. Anterior coxal cavities open behind. Elytra with big bright spot and stria punctures faded behind the middle part. Claws simple.

Material examined: 1♀, Dailing, Prov. Heilongjiang, 2-V-2005.

Distribution: Heilongjiang; Korea, Russia(Far East).

Remarks: This species is firstly recorded from China.

*Thanasimus lewisi* (Jacobson) (Fig. 2)

*Cleroides lewisi* Jacobson, 1911: 717.

*Thanasimus nigricollis* Lewis, 1892: 189.

*Thanasimus lewisi*: Corporaal, 1950: 142; Xie and Zhang, 1993: 37; Kim and Jung, 2006: 11-12.

Material examined: 2♀♀, 2♂♂, Jiangshanjiang, Prov. Heilongjiang, 30-VI-1982; 1♀, Laoshan, Prov. Heilongjiang, 13-VI-1964; 1♀, Hulan, Prov. Heilongjiang, 1-VI-2005.

Distribution: Heilongjiang, Jilin, Hunan, Hubei, Zhejiang, Guangdong; Korea, Japan.

*Thanasimus substriatus* (Gebler) (Fig. 3)

*Clerus substriatus* Gebler, 1841: 47.

*Thanasimus karafutonis* Kôno, 1930: 135.

*Thanasimus substriatus*: Scedlitz, 1891: 492. Kim and Jung, 2006: 12.

Materials examined: 1ex, Wuying, Prov. Heilongjiang, 7-VI-1960; 1ex, Dailing, Prov. Heilongjiang, 4-VII-1961; 5exs, Wuying, Prov. Heilongjiang, 26-V-1981; 2exs, Wuying, Prov. Heilongjiang, 22-V-1987.

Distribution: Heilongjiang, Jilin, Henan, Qinghai; Korea, Japan, Mongolia, Russia(Siberia).

*Trichodes irtutensis* (Laxmann) (Fig. 4)

*Attelabus irtutensis* Laxmann, 1759: 595.

*Clerus bifasciatus* Fabricius, 1781: 202.

*Trichodes irtutensis*: Siedlitz, 1891: 527; Xie and Zhang, 1993: 40; Kim and Jung, 2006: 13.

Material examined: 1♀, Yimianpo, Prov. Heilongjiang, 7-VII-1976; 1♂, Wuying, Prov. Heilongjiang, 5-VII-1985; 2♂♂, Dailing, Prov. Heilongjiang, 2-VII-2005; 1♀ Mt. Maoershan,

Foundation project: The research was supported by the Key Project of Heilongjiang Province (No.GC02B202).

Received: 2006-12-04; Accepted: 2007-01-06

© Northeast Forestry University and Springer-Verlag 2007

Electronic supplementary material is available in the online version of this article at <http://dxdoi.org/10.1007/s11676-007-0030-z>

Biography: Li Cheng-de (1963-), male, Professor in School of Forestry, Northeast Forestry University, Harbin 150040, China. Corresponding author. E-mail: [bchsys@public.hr.hl.cn](mailto:bchsys@public.hr.hl.cn).

Responsible editor: Chai Ruihai

P-rov. Heilongjiang, 23-VI-2006; 1♀, Tahe, Prov. Heilongjiang, 18-VII-2006.

Distribution: Heilongjiang, Jilin, Inner Mongolia; N. Korea, S. Korea, Russia(European parts, Far East), Mongolia.

*Trichodes sinae* (Chevrolat) (Fig. 5)

*Trichodes spinolai* Kolbe (*spinolae*), 1886: 199.

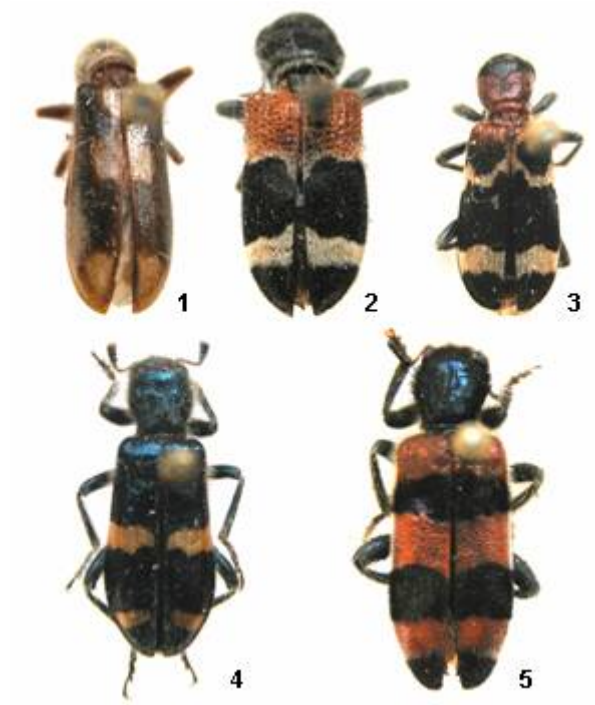
*Clerus spinolae*: Heyden, 1889: 664.

*Trichodes thibetanus* Kraatz, 1894: 122.

*Trichodes sinae*: Xie and Zhang, 1993: 40; Kim and Jung, 2006: 13.

Material examined: 2♂♂, 1♀, Wangkui, Prov. Heilongjiang, 17-VII-1976; 1♀ Mt. Maoershan, Prov. Heilongjiang, 11-VII-2003; 1♂, Songhuahu, Prov. Jilin, 26-VI-1976.

Distribution: Heilongjiang, Jilin, Inner Mongolia, Henan, Hunan, Gansu, Xinjiang, Qinghai, Shanxi, Xizang; Korea, Mon-golia.



**Figs. 1-5. Species of Cleridae**

1. *Orthrius striatulus* (Motschlsky); 2. *Thanasimus lewisi* (Jacobson); 3. *Thanasimus substriatus* (Gebler); 4. *Trichodes irtutensis* (Laxmann); 5. *Trichodes sinae* (Chevrolat)

*Clerus dealbatus* (Kraatz)

*Pseudoclerops dealbatus* Kraatz, 1879: 128.

*Clerus dealbatus*: Corporaal, 1950: 166; Xie and Zhang, 1993:37; Kim and Jung, 2006: 7.

Distribution: Heilongjiang, Jiangsu, Fujian; Korea, Japan, India, Russia.

Remarks: I have not seen the specimen. No specimens were found also in Korea and even no pictures could be found in distribution area.

Subfamily Korynetinae Laporte, 1836: 34.

Type genus: *Korynetes* Herbst, 1792.

*Necrobis ruficollis* (Fabricius)

*Dermestes ruficollis* Fabricius, 1775: 57.

*Necrobis ruficollis* (Fabricius): Xie and Zhang, 1993: 43; Zhang *et al.*, 1998: 273-274; Kim and Jung, 2006c: 247.

Distribution: Heilongjiang, Liaoning, Henan, Shandong, Shanxi, Shaanxi, Hunan, Hubei, Anhui, Zhejiang, Jiangxi, Fujian, Sichuan, Yunnan, Guizhou, Guangdong, Guangxi; Cosmopolitan.

Remarks: I have not seen the specimen. According to the record, this species is widely distributed in China.

## References

- Hua, L.Z. 2002. *List of Chinese Insects (Vol. II)*. Nanjing: Zhongshan University Press.
- Kim, J.I. and Jung, B.H. 2006a. Taxonomic review of the Cleridae (Coleoptera) in Korea(Part 1): Clerinae Latreille, 1802. *Entomological Research*, **36**: 6-15.
- Kim, J.I. and Jung, B.H. 2006b. Taxonomic review of the Cleridae (Coleoptera) in Korea(Part 2): Enopliinae Gistel, 1856. *Entomological Research*, **36**: 20-23.
- Kim, J.I. and Jung, B.H. 2006c. Taxonomic review of the Cleridae (Coleoptera) in Korea(Part 3): Korynetinae, Tarsosteninae and Tillinae. *Entomological Research*, **36**: 245-252.
- Kurosawa, Y., Hisamatsu, S. and Sasaji, H. 1985. *Colored illustrations of the Coleoptera of Japan* (Vol. III). Osaka: Hoikusha Publishing Co., LTD. P151-160.
- Xie Weiping and Zhang Yan. 1993. A list of Chinese checkered beetles (Coleoptera: Cleridae). *Memoirs*, **53**: 26-44. (in Chinese)
- Zhang Shengfang, Liu Yongping and Wu, Zengqiang. 1998. *Beetles associated with stored products in China*. Beijing: China Agricultural Science and Technology Press. p269-275.